

FIG. 2

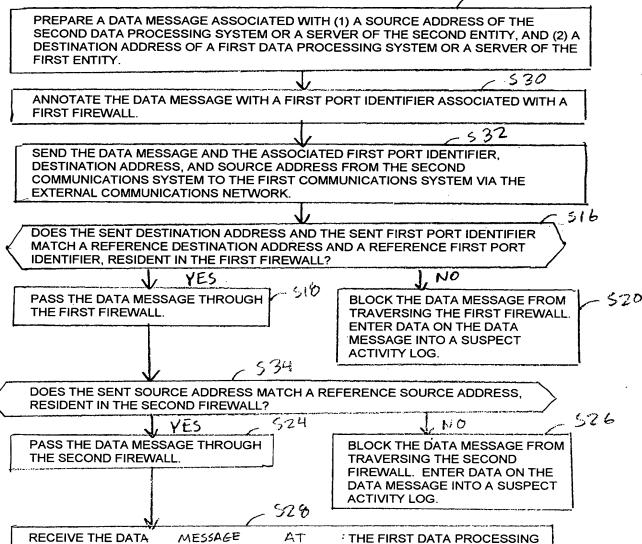
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PREPARE A DATA MESSAGE ASSOCIATED WITH (1) A SOURCE ADDRESS OF THE SECOND DATA PROCESSING SYSTEM OR A SERVER OF THE SECOND ENTITY, AND (2) A DESTINATION ADDRESS OF A FIRST DATA PROCESSING SYSTEM OR A SERVER OF THE FIRST ENTITY. 512 ANNOTATE THE DATA MESSAGE WITH A FIRST PORT IDENTIFIER ASSOCIATED WITH A FIRST FIREWALL AND A SECOND PORT IDENTIFIER ASSOCIATED WITH THE SECOND FIREWALL, WHERE THE FIRST PORT IDENTIFIER IS DISTINCT FROM THE SECOND PORT IDENTIFIER. 514 SEND THE DATA MESSAGE AND THE ASSOCIATED FIRST PORT IDENTIFIER. SECOND PORT IDENTIFIER, DESTINATION ADDRESS, AND SOURCE ADDRESS FROM THE SECOND COMMUNICATIONS SYSTEM TO THE FIRST COMMUNICATIONS SYSTEM VIA THE EXTERNAL COMMUNICATIONS NETWORK. 516 DOES THE SENT DESTINATION ADDRESS AND THE SENT FIRST PORT IDENTIFIER MATCH A REFERENCE DESTINATION ADDRESS AND A REFERENCE FIRST PORT IDENTIFIER, RESIDENT IN THE FIRST FIREWALL? , YES NO 518 BLOCK THE DATA MESSAGE FROM - 520 PASS THE DATA MESSAGE THROUGH TRAVERSING THE FIRST FIREWALL. THE FIRST FIREWALL. ENTER DATA ON THE DATA MESSAGE INTO A SUSPECT ACTIVITY LOG. 522 DOES THE SENT SECOND PORT IDENTIFIER MATCH A REFERENCE SECOND PORT IDENTIFIER, RESIDENT IN THE SECOND FIREWALL? 524 521 YES BLOCK THE DATA MESSAGE FROM PASS THE DATA MESSAGE THROUGH TRAVERSING THE SECOND THE SECOND FIREWALL. FIREWALL. ENTER DATA ON THE DATA MESSAGE INTO A SUSPECT ACTIVITY LOG. 528 THE FIRST DATA PROCESSING AT RECEIVE THE DATA MESSAGE

SYSTEM FOR ANY SUBSEQUENT ACTION THAT IS NECESSARY OR APROPRIATE.

FIG. 3

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SYSTEM FOR ANY SUBSEQUENT ACTION THAT IS NECESSARY OR APROPRIATE.

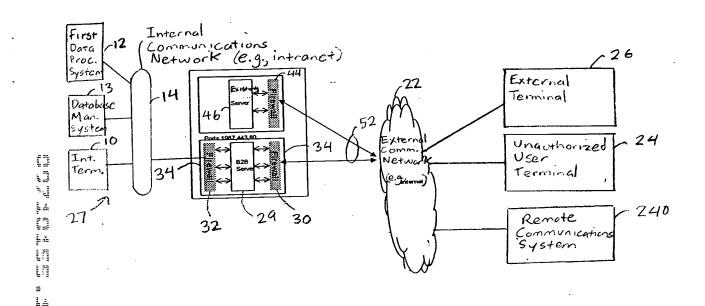
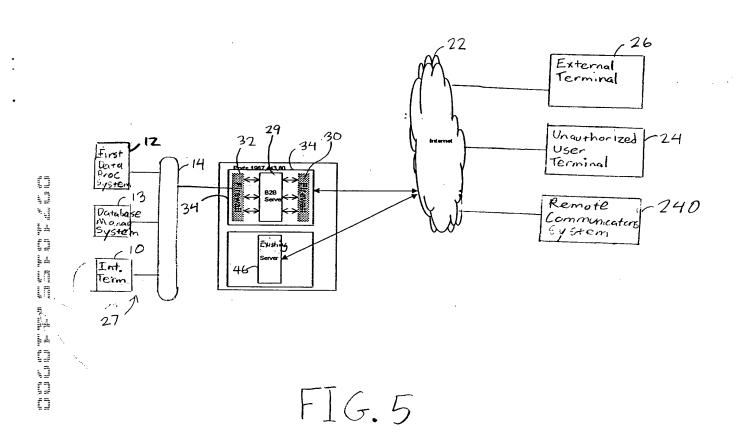


FIG. 4



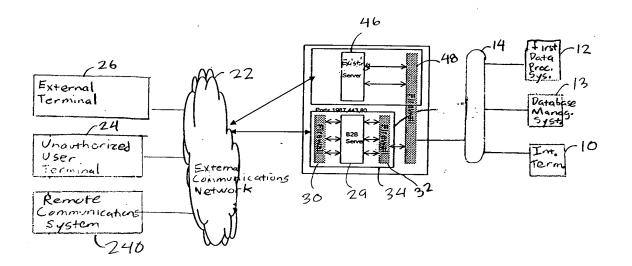


FIG. 6

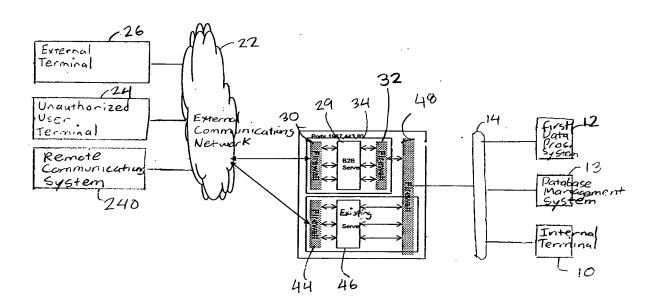


FIG. 7